

PERFORMANCE OF STRAWBERRY CULTIVARS FOR GROWTH, YIELD AND QUALITY UNDER NATURALLY VENTILATED POLYHOUSE CONDITIONS

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Received-23.11.2021, Revised-14.12.2021, Accepted-24.12.2021

Abstract: Strawberry has considerable genetic diversity. Evaluation of cultivars has gained paramount importance and essential for recommendation of cultivars to particular location. Six strawberry cultivars were studied for growth, flowering, yield and quality grown at temperature below 28°C under naturally ventilated polyhouse. The pooled data revealed maximum plant height (22.58 cm), plant spread (31.50 cm East-West), (33.67 cm North-South), minimum number of days to fifty % flowering (103.99 days), number of days flowering to fruit set (12.35 days), number of days to maturity (27.88 days), maximum number of primary fruits (3.32), secondary (4.27), tertiary fruits (5.44), fruit yield per plot (2.00 kg) and yield per hectare (11.34 t ha⁻¹) were recorded in Winter Dawn. Among the evaluated cultivars, Sweet Charlie had recorded maximum total sugars (6.17%) while Winter Dawn had registered minimum albinism disorder (1.42%) and maximum benefit cost ratio (2.29) as per the pooled data.

Keywords: Strawberry, Cultivars, Diversity, Polyhouse, Performance

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